

In the Claims:

Please amend the claims as follows:

1. (previously amended) A method for chemical or biochemical analysis of a target analyte in a target environment, the method comprising:

providing a test sample in or in contact with said target environment, which test sample upon interaction with said target analyte is chemically or biologically modified changing its spectral response;

illuminating said test sample using a program controlled display as a light source, which program controlled display is composed of at least one activated pixel providing the illumination from an illuminating area of said program controlled display;

detecting light emerging from said test sample by a detector coupled to said program controlled display, and

displaying test results originating from signals from said detector on said program controlled display.

2. (previously amended) The method according to claim 1, wherein the step of providing a test sample comprises providing the test sample in the target environment.

3. (previously amended) The method according to claim 1, wherein the step of providing a test sample comprises providing the test sample on said detector, whereby the electrical properties of said detector upon chemical or biochemical interaction with said

target analyte is affected.

4. (currently amended) The method according to claim 1, wherein the step of displaying test results originating from signals comprises displaying resulting spectra.

5. (currently amended) The method according to claim 3, wherein the step of displaying test results originating from signals comprises displaying a chemical or biochemical image using a photocurrent color coded scale.

6. (previously amended) The method according to claim 1, further comprising individually modulating the color of each individual pixel by software.

7. (previously amended) The method according to claim 1, further comprising individually modulating the light intensity of each individual pixel by software.

8. (previously amended) The method according to claim 1, further comprising scanning the color of each individual pixel within the visible range by software.

9. (previously amended) The method according to claim 1, wherein the color, size, shape, modulation and background color of said illuminating area is configured through a user interface.

10. (previously amended) The method according to claim 1, further comprising

displacing said illuminating area of said program controlled display over time.

11. (previously amended) The method according to claim 1, wherein the step of displaying further comprises displaying said test results on a part of said program controlled display that is not used for illumination.

12. (previously amended) The method according to claim 1, further comprising placing a diffractive element between said program controlled display and said test sample.

13. (currently amended) The method according to claim 12, further comprising placing a collimating slit between said diffractive element and said test sample and scanning diffracted light through the collimated ~~slit~~ slit by displacement of said illuminating area.

14. (previously amended) The method according to claim 1, further comprising a step of evaluating said signals from said detector by software coupled to said program controlled display.

15. (previously amended) The method according to claim 1, further comprising a step of evaluating said signals from said detector through an on-line analysis by an expert or an expert system.

16. (previously amended) The method according to claim 1, further comprising controlling said program controlled display, said detector, said electronic device and said user

interface by a computer.

17. (previously amended) A system for chemical or biochemical analysis of a target analyte in a target environment, said system comprising:

a test sample, which upon interaction with said target analyte is arranged to be chemically or biologically modified to change its spectral response;

a program controlled display arranged to be used as a light source for illumination of said test sample and to be used for displaying test results, and

a detector arranged to detect light emerging from said test sample and coupled to said program controlled display.

18. (previously amended) The system according to claim 17, wherein said program controlled display is a cathode ray tube computer monitor or a liquid crystal display monitor.

19. (previously amended) The system according to claim 17, wherein said test sample comprises molecules or materials specifically designed to show spectral changes upon chemical or biochemical reactions.

20. (previously amended) The system according to claim 17, wherein said test sample comprises molecules or materials specifically designed to be used together with rgb-illumination.

21. (previously amended) The system according to claim 17, wherein said test sample is an indicator deposited as a layer on a transparent substrate, in a cuvette or in a cavity of an

analysis plate.

22. (previously amended) The system according to claim 17, wherein said test sample is a detector gate.

23. (previously amended) The system according to claim 17, wherein said detector is a web camera, a digital camera or a video camera.

24. (previously amended) A The system according to claim 17, wherein said detector is a semiconductor device, a conductive photo-sensitive detector, a polymer photo-detector or an ion-sensitive device.

25. (previously amended) The system according to claim 17, further comprising a holder for holding said test sample at a distance from said program controlled display.

26. (previously amended) The system according to claim 17, further comprising a magnifying lens between said test sample and said detector.

27. (currently amended) The system according to claim 17, further comprising a diffractive element arranged to be placed between said program controlled display and ~~said~~ said test sample.

28. (previously amended) The system according to claim 27, further comprising a

collimating slit arranged to be placed between said diffractive element and said test sample.

29. (previously amended) The system according to claim 17, further comprising a focussing lens between said program controlled display and said test sample.